

M20 - D16 - L18 - L7 - C17 (C10)
DOUBLE HEAD - LINEAR - CONVEX
USB & WI-FI Color Doppler
Pocket-sized ultrasound system
User's Manual






IMPORTANT !

Read and understand this manual before using the device. After reading, keep this manual in an easily accessible place. Ver: Myusg-V1.0

Forbidden operations

 **Danger** ✘ Do not modify this device, including components, software, cables, and everything else. User modifications may cause safety problems or reduced system performance. All modifications must be completed by personnel designated by BASEL PLUS.

Introduction

This manual describes the operation of the ultrasonic diagnostic equipment. In order to ensure the safe operation of the system, please read and understand the contents of the manual before using the device.

Important Statement!

1. This manual or any part of it may not be copied before any written permission is given;
2. It is prohibited to modify the software or hardware of this product;
3. The utility program can provide the physician with the image and data needed for the diagnosis clinical diagnosis, and the physician is responsible for the diagnosis process;
4. The quality warranty does not include the following, even during the warranty period:
 - (1) Damage or total loss caused by improper installation or environmental conditions not in accordance with the requirements;
 - (2) Damage or total loss caused by supply voltage exceeding the specified limit;
 - (3) Damage or total loss caused by the use of parts and components not purchased from BASEL PLUS or its authorized distributor or agent;
 - (4) Damage or total loss caused by the use of this instrument during the period of purchase initial;
 - (5) Damage or total loss caused by maintenance by the company's unauthorized personnel;
 - (6) Total damage or loss caused by force majeure such as fire, earthquake floods or lightning;
 - (7) Damage or total loss caused by error or misuse;
 - (8) Faults caused by interference from other equipment.


Repair and maintenance service

The main warranty period is 12 months.

The warranty period starts from the date the product leaves our warehouse. Throughout the warranty period, the product enjoys free customer service. Excluded from the said warranty are the causes listed in the mentioned point "Important Statement" (points nr 1 to nr 8), in such cases BASEL PLUS will guarantee the repair service by charging the related costs to the customer.

Even after the warranty expires, BASEL PLUS is available to provide repair services for the product.

The user is encouraged to familiarize himself/herself with the operating instructions for the device before using it. The company assumes no responsibility for improper use of the appliance that does not comply with the requirements of this manual.

 **Danger** ✘ Do not modify this equipment, including the components of the equipment, software, cables, and so on. User modifications may cause safety problems or reduce system performance. All modifications must be completed by personnel approved by BASEL PLUS

Declaration of intellectual property



The intellectual property rights of the products are reserved by BASEL PLUS. No part of this manual may be copied, modified or translated without the written consent of BASEL PLUS.

1 Safety measures

1.1 Safety classification

- According to the type of anti electric shock:
Internal power supply, where the adapter is Class 1;
- According to the degree of anti electric shock: Type BF application part.;
- According to the degree of protection of the harmful liquid:
- The system probe is IPX5; the probe head is IPX7
- According to the degree of safety in the presence of flammable anesthetic gas mixed with air (or oxygen, nitrous oxide two);
- According to work mode: Continuous work equipment.

1.2 Safety Symbol

Safety Symbol	Detailed description
	Type BF application part Description: all ultrasonic probes are part of the BF application.
	"Be careful" indicates what should be noted. Be sure to read the instructions carefully before using the system.

1.3 Safety Warnings.

In order to ensure patient and operator safety, the following safety rules must be strictly adhered to when using the wireless ultrasound probe.



ATTENTION

1. Do not disassemble the ultrasonic probe. This may cause electric shock.
2. Use the power cord supplied with this unit; use only the power supply provided by BASEL PLUS for the power supply; the use of other specific power supplies (such as UPS, etc.) on the ultrasonic probe power supply may result in the risk of electric shock.
3. Use the probe carefully, if it is scratched on the contact surface with the human body, stop using it immediately and contact the service representative. If you use a scratched probe, there is a risk of electric shock.
4. Every time you use the instrument, it should be checked for safety, do not let the damaged probe can cause electric shock to the patient.
5. Before performing an ultrasound, check the surroundings to ensure safe use. Do not use the instrument in an environment with flammable or explosive liquids, vapors or gases such as oxygen or hydrogen.
6. Be sure to cover the probe with a sterile probe cover when performing an inspection.
7. Do not immerse the probe in water or disinfectant. Since the probe is not waterproof, this could cause an electric shock or malfunction of the probe.
8. Before and after each inspection, it is necessary to ensure that the probe has a normal sound. A defective probe can cause shock to the patient.
9. If the probe head part does not comply with EMC requirements, it is forbidden to use the probe on the body (as the device may be affected negatively by other equipment).



ATTENTION

1. **Matters needing attention in clinical examination technology: This device should be used only by qualified medical personnel. This manual does not introduce a clinical examination technique. You must select the correct inspection techniques based on your professional training knowledge and clinical experience.**
2. **The equipment cannot be tested for a long period of time.**
3. **Do not use incompatible coupling agents, disinfectants, probe protection cover, probe, puncture rack.**
4. **Sterile gloves should be worn to prevent infection when using ultrasound probes.**
5. **A sterile ultrasonic coupling agent must be used. Use a coupling agent that complies with local regulatory requirements. In addition, you must properly handle and use the ultrasonic coupling agent to ensure that it does not become a source of infection.**
6. **If the probe cover is made of natural rubber, it should be used with caution for possible allergies.**
7. **For in situ transducers, it is critical that the surface temperature does not exceed 43°C. If this occurs, the probe may be damaged.**



ATTENTION

- 1 **To avoid abnormal operation of the probe, please read the following safety precautions:**
After each ultrasound examination, gel residues must be completely removed from the surface of the probe. Otherwise, such residues, may affect the image quality. The probe should be cleaned and disinfected before and after each ultrasound examination.
- 2 **Environmental requirements for proper use of the probe:**
 - **Ambient Temperature: 0°C ~ 35°C**
 - **Relative humidity: 30% ~ 85% (No condensation)**
 - **Atmospheric pressure : 70KPa ~ 106KPa.****To avoid damage to the probe, do not expose it to the following environments:**
 - **Sun rays and direct heat sources**
 - **Wide temperature ranges.**
 - **Places filled with dust**
 - **Avoid vibrations**
- 3 **Constant disinfection and cleaning of the probe is a guarantee of probe performance and durability.**

2 Product Overview

1. Intended Use

It is designed to meet the following intended uses:

Obstetrics, Gynecology, Abdominals, Small parts (breast, thyroid, testicle, etc.),
Cardiology, Vascular, Musculoskeletal, Nerves, Urology, Orthopedics, Angiography,
Pediatrics, Paracentesis.

2. Contraindications

The probe is for external use. It cannot be used on burns or burns. It is not applied to the eye or any situation that may cause the sound beam to pass through the eye.

3. Product specifications.

Image mode

B Mode.

BM Mode

C Mode

PW Mode

PDI Mode

Power supply

External power supply adapter

Power supply AC: 100 - 240V

Power frequency: 50/60Hz

DC output: 5V/2°

Internal Battery

Voltage: 3.8V

Capability: 2800mAh

2.3.3 Environmental condition

	Work Environment	Storage and transport environment
Temperature Environment	0°C~35°C	0°C~+45°C
Relative Humidity	30%~85% (condensazione)	30%~95% (No condensazione)
Pressione atmosferica	70KPa~106KPa	70KPa~106KPa



ATTENTION

Transport:

1. Do not use or store the device outside the conditions specified environmental conditions

Work:

1. Please make sure that the probe can be used over a crib, otherwise it may damage the patient's health.
2. Ensure that the equipment is in a dry environment, changes in ambient temperature and humidity can lead to the formation of liquid condensation in the circuit board with the risk of short circuit.
3. Do not operate the device in an environment with flammable or explosive liquids, vapors or gases such as oxygen or hydrogen.
 - A. Please make sure before use that no flammable substances are detected in the environment, please do not connect the power supply or turn on the device.
 - B. Use the real-time detection device to detect flammable substances after the probe is turned on. Do not attempt to turn off the device or disconnect the power supply. First ventilate the room and ensure good ventilation, and then turn off the power supply.
4. If the system does not work, please do not disassemble the visible part, please contact the service center or your representative..

2.4 System configuration

The system consists mainly of probe and application.



MY USG

Quick Start Guide



M20



L18



L7

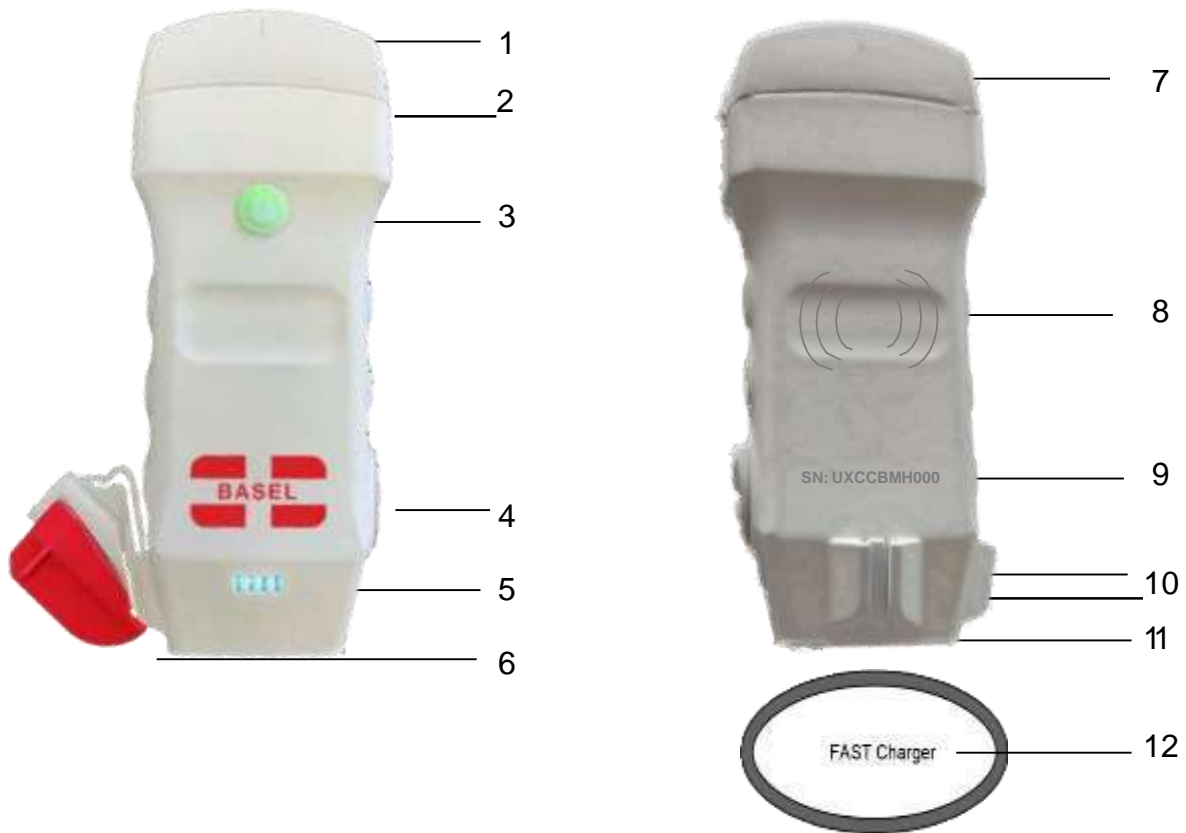


C17



D16

Probe Components

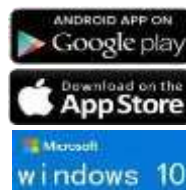


1. Middle line
2. Guideline
3. Power button/ freeze/ head change
4. Port Type-C
5. Battery light indicators
6. Needle guide

7. ProbeA
8. Wireless charging symbol
9. Serial Number
10. Needle guide attachments
11. Probe B
12. Wireless charging pad


1 Download MY USG App


Search for and install "MY USG" on your smartphone/tablet/laptop. Contact us to get the software for Windows



iOS version 11.0 or newer
Android version 8.0 or newer
Windows 10 Laptop, 5G,
64-bit or newer

2 Turn on/off the USG probe.

Press the power button  to turn on the probe, the indicator will show the battery symbol.
Press and hold for 5 seconds to turn off the probe

Press the power button  for 3 seconds to switch the probe head.

3 Connect the USG probe

Method 1: Wi-Fi connection

Find the **SN** of your probeSN:
UXCCBMH000



Choose **SSID** “******BMH000**”



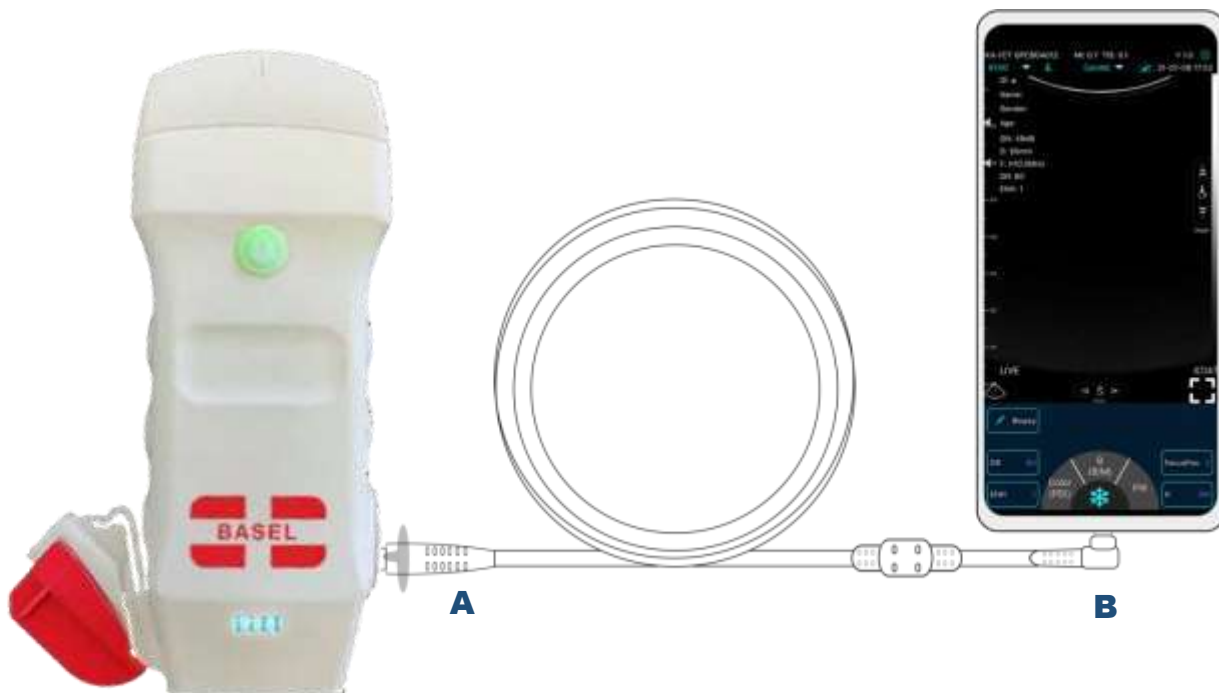
Enter password **uxccbmh000**



The password is the SN of the probe but must be written with lower case letters.

Method 2: connection with USB

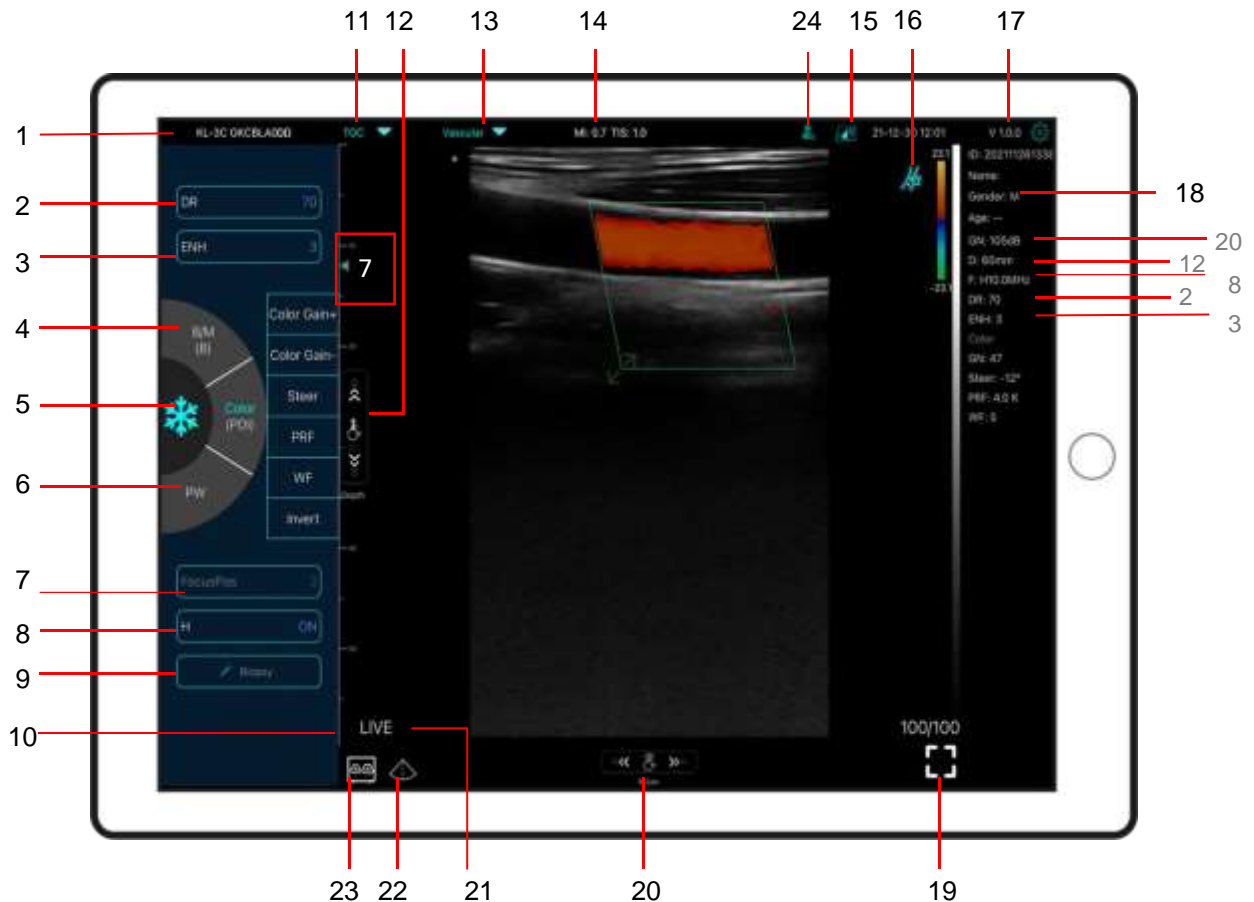
Connect the probe to your device with the Type-C cable as in the image below.



The A end must be fully inserted into the probe and the B end must be fully inserted into the device



4 Scan now

Live



No	Item Description
1	Serial number of probe
2	Dynamic Range (DR)
3	Imaging Enhance (ENH)
4	Mode: B↔B/M, Color↔PDI Dual click to switch scanning mode
5	Freeze/Live button
6	Mode:PW
7	Focus Position
8	H: change scanning frequency(F)
9	Biopsy Needle Guide line To invert the image horizontally or vertically. U/D flip, R/L flip
10	Depth Scale display
11	8 TGC: adjust gains of different depth
12	Depth: adjust depth by swiping the button (D)
13	Preset selection
14	The Thermal Index (TI), Mechanical Index (MI), and Hz values
15	DICOM Procedures, uploading images to PACS
16	Body Mark
17	APP version number
18	Show patient information
19	Full screen
20	B Gain (GN)
21	Live/freeze display
22	Mid-line
23	Dual screen display mode (only available for Apple ipad and android pad device)
24	New patient & new report

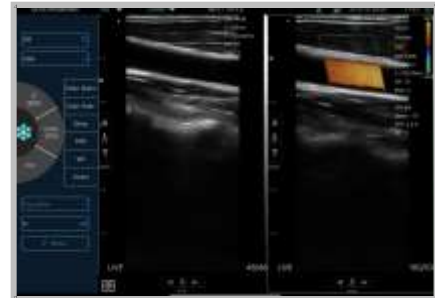
23 Dual screen display mode

Click   button to switch the dual screen / single screen mode

Click the left/right screens to switch freely, and you can switch B/BM/Color/PW mode at the same time



23 B+B mode





B+Color mode



Color+PW mode

24 New patient & new report

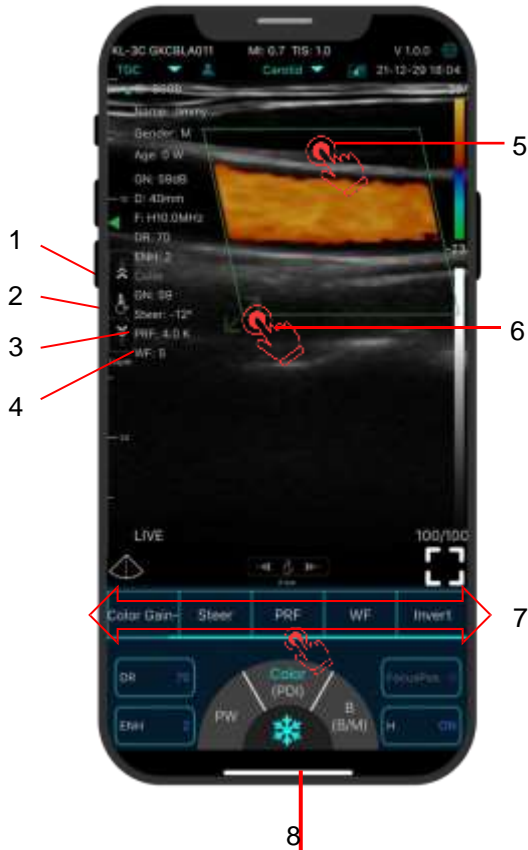
- Enter new patient info, click **OK**
- Scan now, then Freeze image
- Edit the report, click  to save the report to Data Table 



24



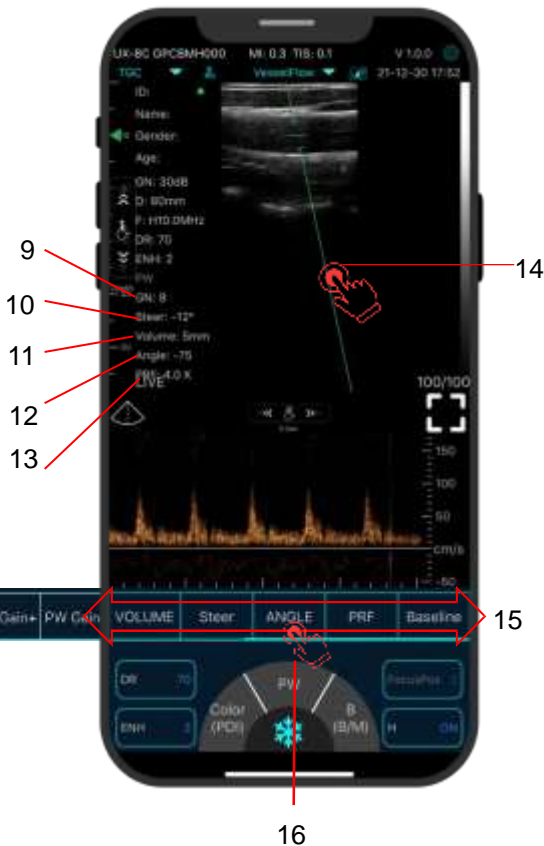
Color/PDI Mode



- | | | |
|---|--------|--|
| 1 | GN | Color Gain ± |
| 2 | Steer | Click Steer Adjust the deflection angle of color ROI
Click PRF Adjust color pulse repetition frequency |
| 3 | PRF | |
| 4 | WF | Click WF Adjusting the filtering frequency of a pulse wave or continuous wave Doppler low frequency signal |
| 5 | | Tap and drag the green box to move the Color ROI |
| 6 | | Use the arrows provided to adjust the angle and size |
| 7 | Invert | Color Red↔Blue invert |
| 8 | | Slide the Color/PDI menu bar |

B
+ First select Color mode
Color Then switch to PW mode
+ (only available for convex probe of dual head serial USG probe)
PW
Mode

PW Mode










- | | | |
|----|----------|--|
| 9 | GN | PW Gain ± |
| 10 | Steer | Click Steer Adjust the deflection angle of sampling line of linear array probe |
| 11 | Volume | Change the size of the sampling volume |
| 12 | Angle | Used to change the spectrum sampling line angle |
| 13 | PRF | Adjust color pulse repetition frequency |
| 14 | | Tap and drag the green line |
| 15 | Baseline | Move the velocity scale |
| 16 | | Slide the PW menu bar |

Automatic blood flow measurement
 Step1: select vessel flow preset
 Step2: enter PW mode, produce a uniform spectrum
 Step3: click Flow mode ON
 Step4: Freeze the PW image then will show the result automatically (only available for linear probe of dual head serial USG probe)

17
Flow-mode
ON/OFF

Freeze

- 1  add annotations on any frozen image
- 2  Save image, review the image in Date Table
- 3  Measurements
- 4  Save video, review the video in Date Table
- 5  Date Table
- 6  Auto cine review
- 7  Manual cine review

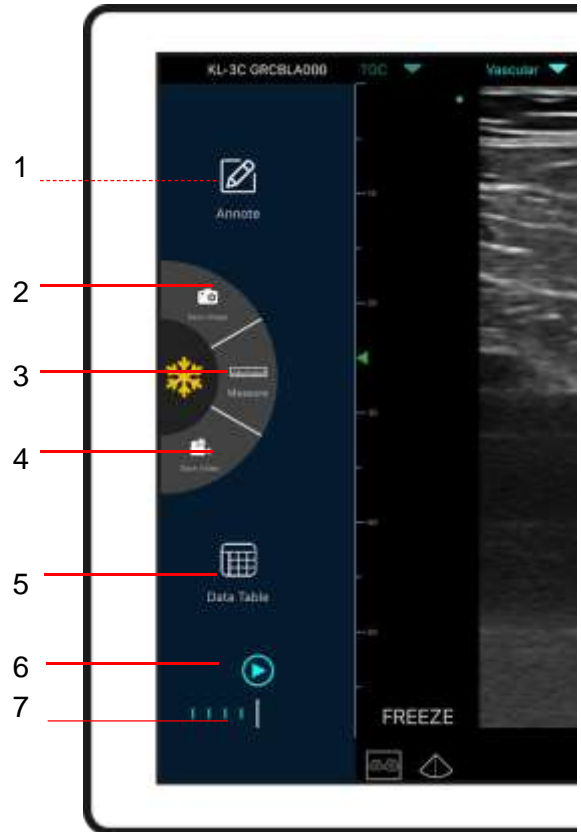
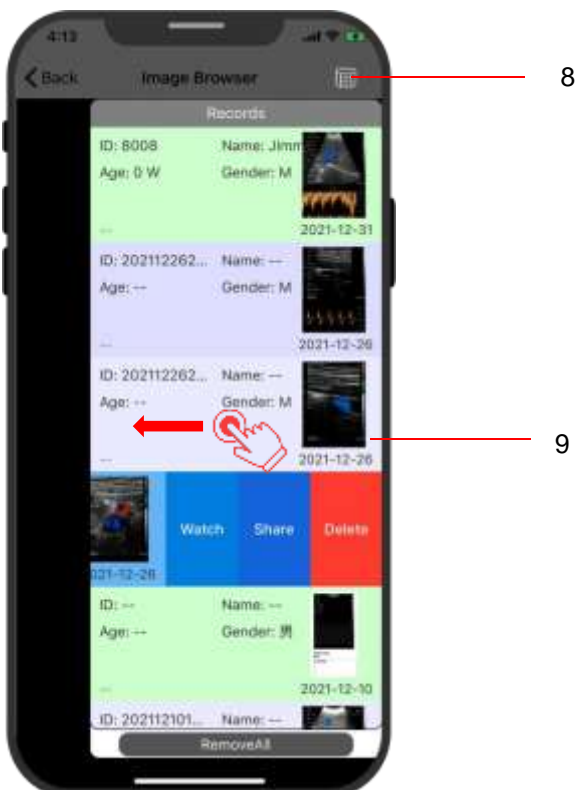



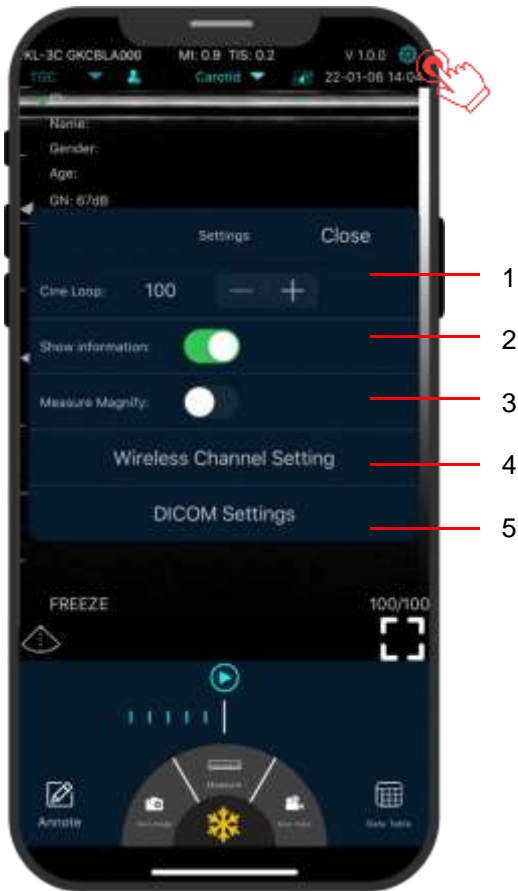
Image Browser

Review image/video/report



- ① Click **5 Date Table**
 - ② Click **8**  check record
 - ③ Please swipe to the left to browse the images/videos and report.
- Watch
-
- Share
- Sharing scanned files by other app
 - Printing image/report
-
- Delete
- Delete local files
 - The data table can store 500 files

5 Settings



1. Cine loop

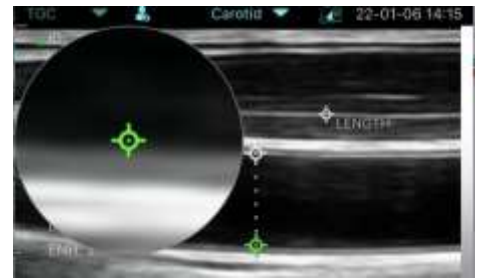
Adjust cine loop frame number
100-200-500-1000
(100=10s)

2. Show information

Hide the patient information and parameter information on the screen

3. Measure Magnify

Measuring magnify function can help you measure the boundary of smaller target.



4. WiFi channel setting

When scanning image transmission is delayed or stuck, Please contact us firstly then switch one channel, press "select", restart the USG probe and reconnect the WiFi with your phone.



5. DICOM setting

a. Connect mobile phone with Workplace WiFi
b. Fill in the DICOM1-DICOM2-Worklist information and tap Ping buttons to test run the set ups.
c. If success messages appear, then the DICOM/PACS connections are completed.

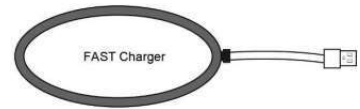
6 Charging

Charging by USB cable

Charging by wireless charging pad:

The probe supports wireless charging.

1. Disconnect the probe from your mobile device.
2. Connect the Micro USB cable to the wireless charging pad.
3. Connect the USB end of the cable to the wall adapter.
4. Plug the wall adapter into a power outlet.
5. Place the probe onto the white wireless charging pad.





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